PCT

INTERNATIONAL PRELIMINARY REPORTON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty).

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference R-15	FOR FURTHER ACTI	ION	See Form PCT/IPEA/416			
International application No.	International filing date (d	ay/month/year)	Priority date (day/month/	year)		
PCT/JP 03 / 13748	28.10.	2003	30.10.	2002		
International Patent Classification (IPC) Int.Cl 7 C23F 13/00, F28				·		
Applicant						
SHOW	A DENKO K.K.					
and/or sheets of Administrative sheets which so beyond the dis Supplemental b. a total of (indicate type containing a sequence	ransmitted to the applicant of 3 sheets, in by ANNEXES, comprising sheets, as follows: escription, claims and/or dr containing rectifications aut e Instructions). upersede earlier sheets, but colosure in the international Box. e and number of electronic e listing and/or tables relati	according to Article according this cover s awings which have thorized by this Authorized by this Authorite application as filed, according to the complete thereto, in comp	36.	asis of this report ection 607 of the ndment that goes ox No. I and the		
4. This report contains indications				ons).		
Box No. I Basis of the						
Box No. II Priority						
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
Box No. IV Lack of unity of invention						
Box No. V Reasoned	-	2) with regard to nov	elty, inventive step or indust	rial applicability;		
Box No. VI Certain do						
Box No. VII Certain de						
Box No. VIII Certain ob	servations on the internation	onal application				
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Date of submission of the demand		Date of completion	n of this report			
22.03.20	22.03.2004 13.08.2004					
Name and mailing address of the IPEA/J	P	Authorized officer		4K 8520		
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

mational applica	mational application No.			
PCT/JP03	/13748			

Box No. I	Basis of the report		
1. With rega	ard to the language, this report is based on the in	ternational application in the language	ge in which it was filed, unless
otherwise	e indicated under this item.		
	nis report is based on translations from the origin		nage,
wl	hich is the language of a translation furnished fo	• •	_
	international search (under Rules 12.3 and 23.1	• ••	
	publication of the international application (un	·	
	international preliminary examination (under R	Rules 55.2 and/or 55.3)	
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	gard to the elements of the international applica		
l	to the receiving Office in response to an invitation of the receiving of the response to this report.	on unaer Article 14 are referred to in	ınıs report as "originally filed"
and are n	ot annexed to this report):	•	:
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	sequence listing and/or any related table(s) - see	Supplemental Box Relating to Secu	ence Listing.
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3. [TI	he amendments have resulted in the cancellation	t UI.	
	the description, pages		
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	the sequence listing (specify):		
	any table(s) related to sequence listing (specif	fy):	
4. 🗍 Ti	his report has been established as if (some of) the	e amendments annexed to this report	and listed below had not been
m	ade, since they have been considered to go bey		
	Rule 70.2(c)).		1
	the description, pages		
·	the claims, Nos.		
	the drawings, sheets/figs		
	the sequence listing (specify):		
	any table(s) related to sequence listing (specif		<u></u>
* If item 4 a	pplies, some or all of those sheets may be marked		-
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INTERNATIONAL PRECLAMNARY REPORT ON PATENTABILITY

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
Statement				
Novelty (N)	Claims	1-18	AND THE TOTAL YE	
	Claims		NO.	
		•	S Y	
Inventive step (IS)	Claims	1-18		
	Claims		NO NO	
	a	1-18	Mar. Mar.	
Industrial applicability (IA)	Claims	1-10	YE	
	Claims		NO	

2. Citations and explanations (Rule 70.7)

The subject matter of claim 1-18 is novel, since it is not disclosed in any of the prior art documents cited in the international search report. The subject matter of claim 1 -18 is considered to involve an inventive step over the documents cited in the international search report. In particular, A heat exchanger which comprises heat exchange tubes and fins each brazed to the heat exchange tube and wherein assuming that each of the heat exchange tubes has a potential B ,that each of the fins has a potential C, and that a fillet formed at the brazed portion between the heat exchange tube and the fin has a potential D, these potentials have the relationship of C<D<B is not disclosed in D1,D2.